

What is claimed is;

1. A camera comprising:

an image-capturing device that captures a subject image through a photographic lens;

5 a filter device that removes a frequency component equal to or lower than a predetermined frequency from image-capturing signals output from the image-capturing device;

a lens drive signal generation device that generates a lens drive signal used to move a focus lens;

10 an evaluation value calculation device that calculates integrating values of pre-removal image-capturing signals still retaining the frequency component before the frequency component is removed by the filter device and integrating values of post-removal image-capturing signals from which the frequency component has been removed, each in correspondence to one of predefined positions of the focus lens;

15 a lens position calculation device that calculates a focused lens position at which focus is achieved based upon the integrating values of the post-removal image-capturing signals calculated by the evaluation value calculation device;

20 and

a saturation determination device that judges the image-capturing device to be in a saturated state by using the pre-removal image-capturing signals, wherein:

25 when the saturation determination device judges the

image-capturing device to be in the saturated state, (a) the evaluation value calculation device calculates differences between the integrating values of the pre-removal image-capturing signals and the integrating values of the post-removal image-capturing signals each in correspondence to one of predefined positions of the focus lens and (b) the lens position calculation device calculates the focused lens position based upon the calculated differences.

10 2. A camera according to claim 1, wherein:

a first cutoff frequency and a second cutoff frequency higher than the first cutoff frequency are set at the filter device; and

the camera further comprises a filter control device that (a) controls the filter device to select the second cutoff frequency when the saturation determination device judges that the image-capturing device is in the saturated state and (b) controls the filter device to select the first cutoff frequency when the saturation determination device does not judge that the image-capturing device is in the saturated state.

3. A camera according to claim 1, wherein:

the saturation determination device judges the image-capturing device to be in the saturated state when (1) there is at least one integrating value calculated by using

the image-capturing signals containing an image-capturing signal indicating a level equal to or higher than a predetermined level among the integrating values of the pre-removal image-capturing signals each calculated in correspondence to one of the predefined positions of the focus lens and (2) a difference between a maximum value and a minimum value among the integrating values of the pre-removal image-capturing signals is equal to or greater than a predetermined value.

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4. A camera according to claim 2, wherein:

the saturation determination device judges the image-capturing device to be in the saturated state when (1) there is at least one integrating value calculated by using the image-capturing signals containing an image-capturing signal indicating a level equal to or higher than a predetermined level among the integrating values of the pre-removal image-capturing signals each calculated in correspondence to one of the predefined positions of the focus lens and (2) a difference between a maximum value and a minimum value among the integrating values of the pre-removal image-capturing signals is equal to or greater than a predetermined value.